

Enter Service:

07/855562

L1 1345 INFLUENZA

=> s hemagglutinin
L2 234 HEMAGGLUTININ

=> s H(4w)7
406197 H
1352144 7
L3 26365 H(4W)7

=> s genetic
L4 4883 GENETIC

=> s vaccination
L5 1039 VACCINATION

=> s inoculation
L6 6828 INOCULATION

=> s DNA (4w) transcriptional (4w) unit
7578 DNA
568 TRANSCRIPTIONAL
492373 UNIT
L7 9 DNA (4W) TRANSCRIPTIONAL (4W) UNIT

=> s 14 and 15
L8 247 L4 AND L5

=> s 14 and 16
L9 622 L4 AND L6

=> s 17 and 19
L10 0 L7 AND L9

=> s 17 and 18
L11 0 L7 AND L8

=> d 17 cit 1-9

1. 5,108,910, Apr. 28, 1992, DNA sequences encoding fusion proteins comprising GM-CSF and IL-3; Benson M. Curtis, et al., 435/69.7, 69.5, 69.52, 172.3, 320.1; 536/27 [IMAGE AVAILABLE]

2. 5,106,733, Apr. 21, 1992, Bovine granulocyte-macrophage colony stimulating factor; Paul E. Baker, et al., 435/69.5, 240.1, 243, 320.1; 536/27 [IMAGE AVAILABLE]

3. 5,081,228, Jan. 14, 1992, Interleukin-1 receptors; Steven K. Dower, et al., 530/351; 424/85.1, 85.2; 435/69.1, 69.5; 514/2, 8; 530/350, 395, 820 [IMAGE AVAILABLE]

4. 5,073,627, Dec. 17, 1991, Fusion proteins comprising GM-CSF and IL-3; Benson M. Curtis, et al., 530/351; 435/69.5, 69.52, 69.7; 530/402, 403, 404, 405, 808 [IMAGE AVAILABLE]

5. 4,968,607, Nov. 6, 1990, Interleukin-1 receptors; Steven K. Dower, et al., 435/69.1, 235.1, 240.1, 252.8, 255; 530/388.22, 399; 536/27 [IMAGE AVAILABLE]

6. 4,965,195, Oct. 23, 1990, Interleukin-7; Anthony E. Namen, et al., 435/69.52, 91, 172.1, 172.3, 320.1; 530/350, 351; 536/27 [IMAGE AVAILABLE]

7. 4,963,481, Oct. 16, 1990, Promoter system; Jean P. deVilliers, 435/69.1, 70.1, 172.3, 320.1; 536/27; 935/32, 36, 60, 70 [IMAGE AVAILABLE]

8. 4,894,333, Jan. 16, 1990, Bovine interleukin-1.alpha.; Douglas P. Cerretti, et al., 435/69.52, 172.1, 172.3, 252.8

9. 4,835,098, May 30, 1989, Characterization of HLA alleles with locus-specific DNA probes; Harry T. Orr, et al., 435/6, 172.3; 436/63, 501, 808; 536/27; 935/12, 29, 78

=> H his

(FILE 'USPAT' ENTERED AT 16:26:12 ON 27 NOV 92)

L1 1345 S INFLUENZA
L2 234 S HEMAGGLUTININ
L3 26365 S H(4W)7
L4 4883 S GENETIC
L5 1039 S VACCINATION
L6 6828 S INOCULATION
L7 9 S DNA (4W) TRANSCRIPTIONAL (4W) UNIT
L8 247 S L4 AND L5
L9 622 S L4 AND L6
L10 0 S L7 AND L9
L11 0 S L7 AND L8

=> s 11 and 12 and 13

L12 4 L1 AND L2 AND L3

=> s 17 and 112

L13 0 L7 AND L12

=> s 18 and 112

L14 1 L8 AND L12

=> d 114 ab cit 1

US PAT NO: 4,999,296 [IMAGE AVAILABLE]

L14: 1 of 1

ABSTRACT:

The present invention relates to pseudorabies viruses which fail to produce any functional thymidine kinase as a result of an insertion in the thymidine kinase gene, vaccines against pseudorabies containing the same, and methods for the production and use of the same. The present invention also relates to pseudorabies virus based viral vectors for the coexpression of foreign genes.

1. 4,999,296, Mar. 12, 1991, Thymidine kinase negative insertion mutants of pseudorabies virus and methods for the production of same; Malon Kit, et al., 435/235.1, 69.1, 70.1, 70.3, 172.1, 172.3, 320.1; 935/22, 23, 32, 52, 57, 63, 65 [IMAGE AVAILABLE]

=> log y

U.S. Patent & Trademark Office LOGOFF AT 16:32:33 ON 27 NOV 92

Dialog Information Services' DIALNET

-2030:01-001-

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- 3 DIALOG Free File of the Month
- 4 DIALOG Database Information and Rates
- 5 Database Selection (DIALINDEX/OneSearch Categories)
- 6 DIALOG Command Descriptions
- 7 DIALOG Training Schedules and Seminar Descriptions
- 8 DIALOG Services
- 9 Begin DIALOG Menus (sm)
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27nov92 16:30:51 User214374 Session D210.1
\$0.12 0.008 Hrs FileHomeBase
\$0.12 Estimated cost FileHomeBase
\$0.09 DIALNET
\$0.21 Estimated cost this search
\$0.21 Estimated total session cost 0.008 Hrs.

SYSTEM:05 - DIALOG OneSearch

File 5:BIOSIS PREVIEWS 69-92/DEC BA9412:BARRM4312
(C. BIOSIS 1992)
File 73:EMBASE (EXCERPTA MEDICA) 74-92/ISS48
(COPR. ESP BV/EM 1992)
**FILE 73: Truncate EMTREE Codes (e.g. DC=C1.120?) for complete
**retrieval. The 9245 update has been delayed.
File 76:LIFE SCIENCES COLLECTION 78-92/SEP
(Copr. Cambridge Scientific Abs.)
File 125:CLAIMS/U.S. PATENT ABS WEEKLY PN 5152013-5165109
OCT 03 92-NOV 17 92
**FILE125: All CLAIMS and All FRONT PAGE information available
For file information, type ?NEWS125
File 340:CLAIMS/U.S. PATENT ABS PN 2492948-5152012
1950-SEP 92
**FILE340: ALL CLAIMS and ALL FRONT PAGE information available from
PN 4308622 (1982-present). For file information, type ?NEWS340
File 144:PASCAL 1973 - 1992 Nov
(C. INIST/CNRS 1992)
**FILE144: Backfile has been added. Limit problem: see ?news144
File 155:MEDLINE 1966-1992/DEC (9212W4)
**FILE155:
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File 156:TOXLINE 1965-1992/NOV

FILE156: The annual 1992 RELOAD is now available. *
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 File 305:ANALYTICAL ABSTRACTS ONLINE 1980-92/DEC
 (Copr. 1992 Royal Soc Chem)
 File 350:DERWENT WORLD PATENTS INDEX
 1963-1980, EQUIVALENTS THRU DW=9235
 **FILE350: Preformatted Patent REPORTS are now available.
 For more information, type ?NEWS350 and ?RATES350.
 File 351:DERWENT WORLD PATENTS INDEX-LATEST
 1981+;DW=9242,UA=9228,UM=9203
 **FILE351: Preformatted Patent REPORTS are now available.
 For more information, type ?NEWS351 and ?RATES351.
 File 357:DERWENT BIOTECHNOLOGY ABS 1982-1992/NOV
 (Copr. 1992 Derwent Pub. ltd.)
 File 358:CURRENT BIOTECHNOLOGY ABS 1983-1992/DEC
 (Copr. 1992 Royal Soc Chem)
 File 399:CA SEARCH 1967-1992 UD=11718
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 **FILE399: Use is subject to the terms of your user customer agreement.
 File 434:SCISEARCH 1974 - 9211W3
 (COPR. ISI INC. 1992)
 **FILE434: Contains complete, merged SciSearch file
 **Includes abstracts as of 1991
 File 442:AMERICAN MEDICAL ASSOCIATION JOURNALS ONLINE C. AMA 1992
 **FILE442: File 442 contains records from 1982-1991. Remainder of
 file will be loaded as soon as possible.
 File 444:New England Journal of Med. 1985-1992/Nov W4
 (c) 1992 Mass. Med. Soc.
 ALERTS can now be set up in file 444.

Set	Items	Description
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?s hemagglutinin		
S1	70048	HEMAGGLUTININ
?s dna(4w)transcriptional(4w)unit		
Processing		
Processed 10 of 17 files ...		
Processing		
	1429667	DNA
	78581	TRANSCRIPTIONAL
	1116649	UNIT
S2	36	DNA(4W)TRANSCRIPTIONAL(4W)UNIT
?s influenza		
S3	92407	INFLUENZA
?s s1 and s3		
	70048	S1
	92407	S3
S4	13832	S1 AND S3
?s genetic		
S5	931801	GENETIC
?s immunization		
S6	151782	IMMUNIZATION
?s s5 and s6		
	931801	S5
	151782	S6
S7	4231	S5 AND S6
ds?		

Set	Items	Description
S1	70048	HEMAGGLUTININ
S2	36	DNA(4W)TRANSCRIPTIONAL(4W)UNIT
S3	92407	INFLUENZA
S4	13832	S1 AND S3
S5	931801	GENETIC
S6	151782	IMMUNIZATION
S7	4231	S5 AND S6

?s s2 and s7

	36	S2
	4231	S7
S8	0	S2 AND S7

?s s1 and s2 and s3

	70048	S1
	36	S2
	92407	S3
S9	0	S1 AND S2 AND S3

?s s7 and DNA

Processing

Processed 10 of 17 files ...

	4231	S7
	1429667	DNA
S10	591	S7 AND DNA

?s s10 and virus

Processing

Processed 10 of 17 files ...

	591	S10
	1179680	VIRUS
S11	248	S10 AND VIRUS

?s s11 and influenza

	248	S11
	92407	INFLUENZA
S12	32	S11 AND INFLUENZA

?rd

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>>>Duplicate detection is not supported for File 351.

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...completed examining records

S13	28	RD (unique items)
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?s s13 and hemagglutinin

	28	S13
	70048	HEMAGGLUTININ
S14	11	S13 AND HEMAGGLUTININ

?rd

>>>Duplicate detection is not supported for File 125.

>>>Duplicate detection is not supported for File 340.

>>>Duplicate detection is not supported for File 350.

>>>Duplicate detection is not supported for File 351.

>>>Records from unsupported files will be retained in the RD set.

...completed examining records

S15	11	RD (unique items)
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?type s15/6/1-11

15/6/1 (Item 1 from file: 73)

7285159 EMBASE No: 89002006

Protective immunity against avian influenza induced by a fowlpox virus recombinant

15/6/2 (Item 2 from file: 73)

6017492 EMBASE No: 86012552

Recombinant vaccinia virus: Immunization against multiple pathogens

15/6/3 (Item 3 from file: 73)

5222043 EMBASE No: 82227652

Attenuated ts-recombinants of influenza A/USSR/77 (H1N1) virus obtained by crossing with the cold-adapted donor A/Leningrad/134/57 (H2N2) virus

15/6/4 (Item 1 from file: 155)

06391193 88036193

Expression of the F and HN glycoproteins of human parainfluenza virus type 3 by recombinant vaccinia viruses: contributions of the individual proteins to host immunity.

15/6/5 (Item 2 from file: 155)

05066974 83299974

Construction of live vaccines by using genetically engineered poxviruses: biological activity of recombinant vaccinia virus expressing influenza virus hemagglutinin.

15/6/6 (Item 1 from file: 399)

112017367 CA: 112(3)17367d PATENT

Recombinant avipox virus for expression of non-avipox DNA, especially avian or mammalian pathogen-encoding DNA

PATENT: PCT International ; WO 8903429 A1 DATE: 890420

APPLICATION: WO 88US2816 (880824) *US 90711 (870828) *US 110335 (871020)

*US 186054 (880425) *US 234390 (880823)

PAGES: 89 pp.

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15/6/7 (Item 1 from file: 442)

00043091

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Does the Immune Response Play a Role in the Pathogenesis of Chronic Liver Disease? (VISTAS IN IMMUNOPATHOLOGY)

LINE COUNT: 00418

WORD COUNT: 05782

15/6/8 (Item 1 from file: 444)

00108941

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Medical Progress: Viral Gastroenteritis (Review Article)

15/6/9 (Item 2 from file: 444)

00106739

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Emergence And Apparent Transmission Of Rimantadine-Resistant Influenza A Virus In Families (Original Articles)

15/6/10 (Item 3 from file: 444)

00103391

Copyright 1987 by the Massachusetts Medical Society

Current Concepts: Immunology: Idiotypes And Idiotypic Networks (Medical Intelligence)

15/6/11 (Item 4 from file: 444)

00100739

Copyright 1985 by the Massachusetts Medical Society

Spontaneous Alteration of Idiotypic in a Monoclonal B-Cell Lymphoma: Escape from Detection by Anti-Idiotypic (Original Article)

?type s15/5/1-5

15/5/1 (Item 1 from file: 73)

7285159 EMBASE No: 89002006

Protective immunity against avian influenza induced by a fowlpox virus recombinant

Taylor J.; Weinberg R.; Kawakita Y.; Webster R.G.; Paoletti E.

New York State Department, Wadsworth Center for Laboratories and Research, Albany, NY 12201 USA

VACCINE (United Kingdom), 1988, 6/6 (504-508) CODEN: VACCD ISSN: 0264-410X

LANGUAGES: English

SUBFILES: 026; 047

Fowlpox virus, the prototypic virus of the genus Avipoxvirus has a natural host range limited to avian species. As such, fowlpox virus provides a suitable candidate for the development of a species-specific recombinant viral vector. This paper reports the development of a fowlpox virus recombinant expressing the haemagglutinin molecule from a highly virulent avian influenza virus. On immunization of chickens and turkeys with the recombinant, protection is afforded against a lethal challenge with either the homologous or a heterologous influenza virus strain.

EMTAGS:

Virus 0761; Infectious diseases 0310; Prevention 0165; Chicken 0709; Histology and cytology 0330; Animal experiment 0112; Nonhuman 0777; Bird 0703; Immunological procedures 0102; Genetic engineering 0108

DRUG DESCRIPTORS:

*virus vaccine--drug development--dv

MEDICAL DESCRIPTORS:

*fowlpox virus; *influenza virus; *recombinant dna; *immunity; *virus infection--prevention--pc

hemagglutinin; immunofluorescence; provocation test; protection; chicken; cytology

EMCLAS DRUG CODES:

03724020000

CAS REGISTRY NO.: 37333-12-3

15/5/2 (Item 2 from file: 73)

6017492 EMBASE No: 86012552

Recombinant vaccinia virus: Immunization against multiple pathogens

Perkus M.E.; Piccini A.; Lipinskas B.R.; Paoletti E.

Laboratory of Immunobiotechnology, Wadsworth Center for Laboratories and Research, New York State Department of Health, Albany, NY 12201 USA

SCIENCE (USA), 1985, 229/4717 (981-984) CODEN: SCIEA

LANGUAGES: ENGLISH

The coding sequences for the hepatitis B virus surface antigen, the herpes simplex virus glycoprotein D, and the influenza virus hemagglutinin were inserted into a single vaccinia virus genome. Rabbits inoculated intravenously or intradermally with this polyvalent vaccinia virus recombinant produced antibodies reactive to all three authentic foreign antigens. In addition, the feasibility of multiple rounds of vaccination with recombinant vaccinia virus was demonstrated.

EMTAGS:

Priority journal (0007); Rabbits and hares (0731); Intradermal drug administration (0176); Intravenous drug administration (0182); Preliminary communication (0004); Genetic engineering (0108); Nonhuman (0777); Infectious diseases (0310); Immunological factors (0136); Heredity (0137);

Prevention (0165); Animal experiment (0112); Virus (0761)

DESCRIPTORS:

*drug synthesis (0161855); *drug efficacy (0124994); *hepatitis b virus (0148698); *herpes simplex (0021588); *rabbit (0040589); *influenza virus (0023664); *vaccination (0051100); *inactivated virus vaccine (0415829); *vaccinia virus (0051115); *recombinant vaccine (0058422); *virus glycoprotein (0143064); *hepatitis b surface antigen (0425706); *herpes simplex virus 1 (0334753); *influenza virus hemagglutinin (0268912); *vaccinia vaccine (0051114)
virus antigen (0070948); gene expression (0019094); virus antibody (0070954)

SECTION HEADINGS:

03724020000 DRUGDOC/ ANTISERA, TOXOIDS AND VACCINES/ Toxoids and vaccines
04721040100 VIROLOGY/ DNA VIRUSES/ Poxviridae/ Orthopoxvirus
04707010000 /DISEASE PREVENTION/ Vaccines
04706010000 /IMMUNOLOGY, HYPERSENSITIVITY, TRANSPLANTATION/ Serology
04722010200 /UNCLASSIFIED VIRUSES, VIROIDS AND OTHER AGENTS/ Hepatitis virus/ Hepatitis virus B
04719040100 /RNA VIRUSES/ Orthomyxoviridae/ Influenzavirus
04721030101 /DNA VIRUSES/ Herpetoviridae/ Alphaherpesvirinae/ Human herpesvirus 1
02624030000 IMMUNOLOGY AND SEROLOGY/ IMMUNITY TO INFECTIONS/ Immunity to viruses
02602040000 /ANTIGENS/ Viral antigens
03027030000 PHARMACOLOGY/ IMMUNOLOGIC AGENTS/ Vaccines, toxoids, antisera
04807020000 GASTROENTEROLOGY/ LIVER AND BILIARY SYSTEM/ Hepatitis
04806020000 /GASTROINTESTINAL INFECTIONS/ Viruses
01332050000 DERMATOLOGY AND VENEREOLOGY/ INFECTIOUS SKIN DISEASES/ Viral infections
00502130100 GENERAL PATHOLOGY AND PATHOLOGICAL ANATOMY/ GENERAL PATHOLOGY/ Viruses; bacteria; parasites; fungi/ Viruses
09837000000 FIRST DECIMAL CLASSIFICATIONS/ DRUGS IN MEDICAL LITERATURE
09847000000 /VIROLOGY
09826000000 /IMMUNOLOGY, SEROLOGY AND TRANSPLANTATION
09830000000 /PHARMACOLOGY AND TOXICOLOGY
09848000000 /GASTROENTEROLOGY
09813000000 /DERMATOLOGY AND VENEREOLOGY
09805000000 /GENERAL PATHOLOGY AND PATHOLOGICAL ANATOMY

15/5/3 (Item 3 from file: 73)

5222043 EMBASE No: 82227652

Attenuated ts-recombinants of influenza A/USSR/77 (H1N1) virus obtained by crossing with the cold-adapted donor A/Leningrad/134/57 (H2N2) virus Polezhaev F.I.; Garmashova L.M.; Koval T.A.; et al.

Virol. Dep., Res. Inst. Exp. Med., USSR Acad. Med. Sci., 197022 Leningrad USSR

ACTA VIROL. (PRAHA) (CZECHOSLOVAKIA), 1982, 26/4 (221-226) CODEN: AVIRA
LANGUAGES: ENGLISH

Conditions of obtaining attenuated influenza virus recombinants by crossing of a cold-adapted donor with A (H1N1) influenza virus that reappeared in 1977 were studied. Temperature-sensitive recombinants suitable for intranasal immunization of adults with low titres of anti-hemagglutinin and anti-neuraminidase antibodies, and possessing sufficiently high immunogenicity were obtained by crossing of native parent strains and cross-reactivation techniques. It was confirmed that the cold-adapted A/Leningrad/134/17/57 (H2N2) influenza virus variant is a prospective donor of attenuation for obtaining recombinants - candidates for live influenza vaccine strains.

EMTAGS:

Cell, tissue or organ culture (0103); Heredity (0137); Prevention (0165); Virus (0761); Mouse (0727)

DESCRIPTORS:

*influenza virus a (0023653); *virus recombinant (0506987); *live vaccine (0063729); *vaccination (0051100); *virus antibody (0070954)

IDENTIFIERS: ts attenuated virus; mouse; vaccine candidate

SECTION HEADINGS:

04719040101 VIROLOGY/ RNA VIRUSES/ Orthomyxoviridae/ Influenzavirus/
Influenzavirus A
04705020000 /BIOCHEMISTRY, GENETICS/ Genetics
04707010000 /DISEASE PREVENTION/ Vaccines
04706010000 /IMMUNOLOGY, HYPERSENSITIVITY, TRANSPLANTATION/ Serology
02201020100 HUMAN GENETICS/ GENERAL GENETICS/ Microorganisms/ Viruses
02202010100 /GENETIC MATERIAL/ Nucleic acids/ DNA

15/5/4 (Item 1 from file: 155)

06391193 88036193

Expression of the F and HN glycoproteins of human parainfluenza virus type 3 by recombinant vaccinia viruses: contributions of the individual proteins to host immunity.

Spriggs MK; Murphy BR; Prince GA; Olmsted RA; Collins PL

Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland 20892.

J Virol Nov 1987, 61 (11) p3416-23, ISSN 0022-538X Journal Code: KCV

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 8802

Subfile: INDEX MEDICUS

cDNA clones containing the complete coding sequences for the human parainfluenza virus type 3 (PIV3) fusion (F) and hemagglutinin-neuraminidase (HN) glycoprotein genes were inserted into the thymidine kinase gene of vaccinia virus (WR strain) under the control of the P7.5 early-late vaccinia virus promoter. The recombinant vaccinia viruses, designated vaccinia-F and vaccinia-HN, expressed glycoproteins in cell culture that appeared to be authentic with respect to glycosylation, disulfide linkage, electrophoretic mobility, cell surface expression, and, in the case of the HN protein, biological activity. Cotton rats inoculated intradermally with vaccinia-HN developed serum neutralizing antibody titers equal to that induced by respiratory tract infection with PIV3, whereas animals receiving vaccinia-F had threefold lower neutralizing antibody titers. A single immunization with either recombinant vaccinia virus induced nearly complete resistance in the lower respiratory tract of these animals. With regard to protection in the upper respiratory tract, animals immunized with vaccinia-HN or vaccinia-F exhibited reductions in PIV3 replication of greater than 3,000-fold and 6-fold, respectively. This large difference (greater than 500-fold) in reduction of PIV3 replication in the upper respiratory tract was in contrast to the relatively modest difference (3-fold) in serum neutralizing antibody titers induced by vaccinia-HN versus vaccinia-F. This dissociation between the level of neutralizing antibodies and protection suggested that immunity to PIV3 is complex, and that immune mechanisms other than serum neutralizing antibodies make important contributions to resistance to infection. Overall, under these experimental conditions, vaccinia-HN induced a substantially more protective immune response than did vaccinia-F.

Tags: Animal; Human

Descriptors: *Membrane Glycoproteins--Genetics--GE; *Para-Influenza --Immunology--IM; *Para-Influenza Virus Type 3--Genetics--GE; *Para-Influenza Viruses--Genetics--GE; *Recombination, Genetic; *Vaccinia Virus--Genetics--GE; *Viral Envelope Proteins--Genetics--GE; *Viral Proteins--Genetics--GE; Base Sequence; Cloning, Molecular; DNA--Metabolism --ME; Fluorescent Antibody Technique; Microtinae; Para-Influenza Virus Type 3--Immunology--IM

CAS Registry No.: 0 (HN protein); 0 (Viral Proteins); 9007-49-2 (DNA)

15/5/5 (Item 2 from file: 155)

05066974 83299974

Construction of live vaccines by using genetically engineered poxviruses: biological activity of recombinant vaccinia virus expressing influenza virus hemagglutinin.

Panicali D; Davis SW; Weinberg RL; Paoletti E
Proc Natl Acad Sci U S A Sep 1983, 80 (17) p5364-8, ISSN 0027-8424
Journal Code: PV3
Contract/Grant No.: GM23853
Languages: ENGLISH
Document type: JOURNAL ARTICLE
JOURNAL ANNOUNCEMENT: 8312
Subfile: INDEX MEDICUS

Recombinant vaccinia viruses containing the cloned hemagglutinin (HA) gene from influenza virus were constructed. The biological activity of these poxvirus vectors was demonstrated both in vitro and in vivo. Expression of HA in cells infected with recombinant vaccinia was detected by using specific anti-HA antiserum and 125I-labeled protein A, showing that HA synthesized under the regulation of vaccinia virus was antigenic. Immunization of rabbits with these recombinant poxviruses resulted in the production of antibodies reactive with authentic influenza HA as detected by radioimmunoassay, by inhibition of HA erythrocyte agglutination, and by neutralization of influenza virus infectivity. The production of antibodies directed against influenza HA suggested that the HA gene expressed in vaccinia is immunogenic. These data indicate the potential of genetically engineered poxviruses for use as generic live vaccine vehicles that have both human and veterinary applications.

Tags: Animal; Support, U.S. Gov't, P.H.S.

Descriptors: *DNA, Recombinant--Metabolism--ME; *Genetic Engineering; *Hemagglutinins, Viral--Genetics--GE; *Orthomyxoviridae--Genetics--GE; *Vaccines; *Vaccinia Virus--Genetics--GE; Cell Line; Cercopithecus aethiops; DNA Restriction Enzymes; Hamsters; Hemagglutination, Viral; Kidney; Plasmids

CAS Registry No.: 0 (Hemagglutinins, Viral); 0 (Vaccines)

Enzyme No.: EC 3.1.21. (DNA Restriction Enzymes)

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27nov92 16:41:09 User214374 Session D210.2

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	\$0.00	3 Type(s)	in Format	6
	\$2.25	6 Types		
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\$0.63	Estimated cost	File76		
	\$0.30	0.002 Hrs	File125	
\$0.30	Estimated cost	File125		
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\$1.35	Estimated cost	File340		
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\$0.96	Estimated cost	File144		
	\$0.97	0.027 Hrs	File155	
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	\$0.00	2 Type(s)	in Format	6
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	\$0.30	0.002 Hrs	File358	
\$0.30	Estimated cost	File358		
	\$2.39	0.019 Hrs	File399	

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\$3.09 Estimated cost File399
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\$0.31 Estimated cost File442
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 \$0.00 4 Type(s) in Format 6
 \$0.00 4 Types
\$0.31 Estimated cost File444
 OneSearch, 17 files, 0.183 Hrs FileOS
\$1.98 DIALNET
\$23.84 Estimated cost this search
\$24.05 Estimated total session cost 0.191 Hrs.
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